

**SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****MATERIAL SAFETY DATA SHEET**

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<b>TRADE NAME:</b>	<b>Bio-1200LT Hydraulic Fluids (ISO 15-22-32)</b>		
CAS NO:	Mixture.		
SYNONYMS:	None.		
GENERIC/CHEMICAL NAME:	Mixture.		
PRODUCT TYPE:	Hydraulic Oil, (Biodegradable)		
PREPARATION/REVISION DATE:	10/05/07		
TRANSPORTATION EMERGENCY PH NO:	330-877-9982		
NFPA CODE:	HEALTH: 1	FIRE: 1	REACTIVITY: 0
HMIS CODE:	HEALTH: 1	FIRE: 1	REACTIVITY: 0

**SECTION 2 COMPOSITION / INFORMATION OF INGREDIENTS**

- This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program.
- This material has no known hazards when used as directed.
- All components of this material are on the U.S. T.S.C.A. Inventory or are exempt.

**SECTION 3 - PHYSICAL DATA**

EVAPORATION RATE (n-Butyl Acetate=1)	Approx. 0
PERCENT VOLATILE:	0
BOILING POINT:	Not Determined
VAPOR PRESSURE:	<1
VAPOR DENSITY (Air = 1):	<1
	<b>ISO 15 22 32</b>
SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	.856 .865 .876
SOLUBILITY IN WATER:	Insoluble
APPEARANCE AND ODOR:	yellow liquid mild odor

**SECTION 4 - HANDLING AND STORAGE**

HANDLING PROCEDURES:	Keep containers closed when not in use. Wash thoroughly after handling.
STORAGE PROCEDURES:	Store in a cool and well ventilated place. Empty containers may retain product properties. Follow all MSDS / Label warnings after container is emptied. No special storage precautions required.
STORAGE TEMPERATURE:	Ambient
STORAGE PRESSURE:	Atmospheric

**SECTION 5 - STABILITY AND REACTIVITY**

STABILITY:	Material is normally stable at moderately elevated temperatures and pressures.
INCOMPATIBILITY:	Oxidizing agents.
POLYMERIZATION:	Will not occur.
THERMAL DECOMPOSITION:	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

## SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Contains vegetable oil base stock. OSHA PEL of 5 mg per cubic meter. ACGIH STEL of 10 mg per cubic meter for mineral oil mists.

EFFECTS OF OVEREXPOSURE: May cause eye and skin irritation. Low order of toxicity.

## SECTION 7 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROCEDURES: Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

GLOVES PROTECTION: Use nitrile or neoprene gloves.

EYE PROTECTION: Chemical goggles or face-shield.

RESPIRATORY PROTECTION: Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

CLOTHING RECOMMENDATION: Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Launder contaminated clothing before reuse.

## SECTION 8 - EMERGENCY AND FIRST AID PROCEDURES:

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

EYE: Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

SKIN: Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

INHALATION Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists, get medical attention.

ADDITIONAL: Note to physician: Treat symptomatically.

## SECTION 9-- - FIRE FIGHTING MEASURES

	ISO	15	22	32
FLASH POINT (COC) C		170	201	230
UPPER FLAMMABLE LIMIT:		Not Determined.		
LOWER FLAMMABLE LIMIT:		Not Determined.		
EXTINGUISHING MEDIA:		CO <sub>2</sub> , dry chemical, alcohol foam. Water can be used to cool and protect exposed material.		
SPECIAL FIRE-FIGHTING PROCEDURES:		Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.		

## SECTION 10 - SPILLS OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts on inert material for disposal.

WASTE DISPOSAL METHOD: This material is non-hazardous for disposal under RCRA. Disposal should be in compliance with federal, state and local laws.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Carcinogenicity	IARC Not Listed. OSHA Not Regulated. NTP Not Listed. No Component of this product at levels greater than 0.1 % is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).
Reproductive toxicity	This product contains no chemicals known to cause cancer, birth defects or other reproductive harm. This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program.
Health warnings	INHALATION. Oil mist can irritate airways and lungs. SKIN CONTACT. Prolonged or repeated contact may lead to irritated skin. EYE CONTACT. Irritating to eyes. INGESTION. Could cause Stomach ache or vomiting.
Route of entry	Inhalation. Skin and/or eye contact. Ingestion.

**SECTION 12 – ECOLOGICAL INFORMATION**

Ultimate Biodegradation Pw1 >60% within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants.  
Aquatic Toxicity: LC50 is greater than 1000 ppm.

**SECTION 13 – DISPOSAL INFORMATION**

Recycle if possible. Do not reuse containers. Dispose of in accordance with all Federal, State, and Local regulations regarding pollution and waste disposal. Product as supplied contains no listed hazardous waste. It also does not meet the definition for an unspecified corrosive or ignitable waste.

**SECTION 14 – TRANSPORTATION INFORMATION**

	ROAD TRANSPORT (ADR):
UN NO. Road	N/A
DOT Classification	Not regulated by DOT
ADR class	Not dangerous according to ADR.
	SEA TRANSPORT (IMDG):
Sea transport notes	Not regulated per IMDG.
	AIR TRANSPORT (IATA/ICAO):
Air transport notes	Not regulated per IATA.

**SECTION 15 – REGULATORY INFORMATION**

	HAZARD LABELLING:
Label for supply	EM No label required NL No label required
Risk phrases	Not classified in the Annex I of Directive 67/548/EEC. No R-phrases required
Safety phrases	Not classified. No safety phrases given.

## Global Chemical Inventories-

<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.
<b>EU</b>	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia.
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China
<b>Korea</b>	All components are in compliance in Korea.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>TSCA:</b>	All ingredients in this product are listed or exempt from listing on the TSCA Chemical inventory.
<b>CEPA:</b>	All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.
<b>Proposition 65:</b>	This product contains no chemicals know to the state of California to cause cancer, birth defects of other reproductive harm.
<b>SARA313:</b>	This product contains no toxic chemicals subject to the requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372)
<b>STATE RIGHT-TO-KNOW:</b>	No listing for the following : CA Prop 65,FL, MA, MI, MN, NJ, PA, RI.
<b>CERCLA RQ's:</b>	NONE

### FEDERAL REGULATIONS:

SEC. 302 / 304 REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE:	<b>NONE</b>
SEC. 302 THRESHOLD PLANNING QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE:	<b>NONE</b>
SEC. 311 / 312 HAZARD CATEGORIES:	<b>NONE</b>
SEC. 313 AND 40 CFR 372 TOXIC CHEMICAL REPORTABLE INGREDIENTS:	<b>NONE</b>
HMIS RATING: HEALTH=1 FLAMMABILITY=1 REACTIVITY=0 PP=B	
WHMIS RATING: (Canada) NOT a WHMIS controlled material	

## SECTION 16 –OTHER INFORMATION

NA=Not Available or Not Applicable  
NE=Not Established

MSDS Issue Date: 10/05/07

Read and follow all label directions and precautions before using the product. KEEP OUT OF THE REACH OF CHILDREN. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

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